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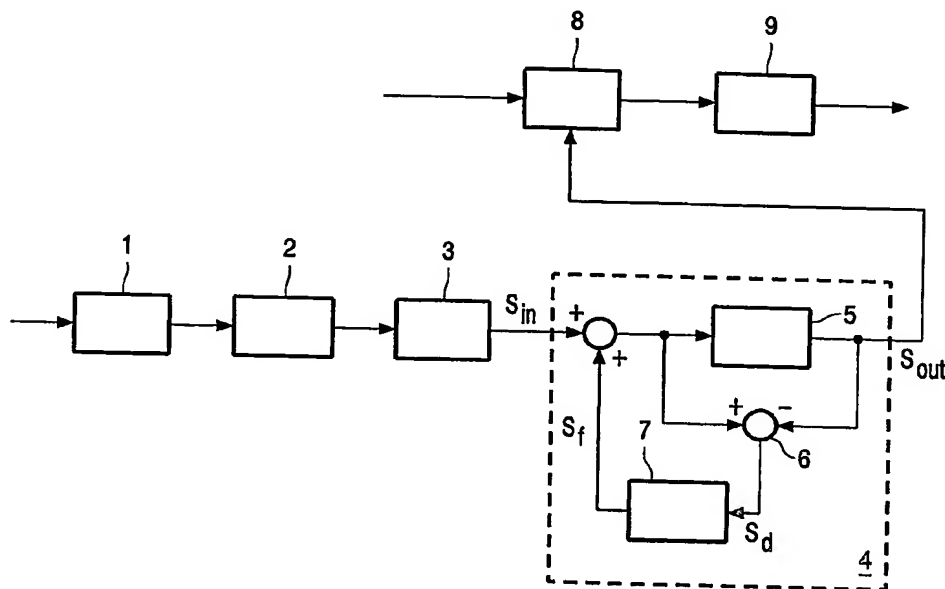
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(54) Title: VOLUME CONTROL DEVICE FOR DIGITAL SIGNALS



(57) Abstract: A digital volume control device comprises a logic unit for volume control of digital input signals. Successively supplied m-bits words with maximally k bits active, derived from the output signals of or supplied by a volume control (4) with a quantizer (5) element the filtered m-bits workds are passed, however, with only the j most significant active bits of these filtered signals. The noise shaper operates with a frequency that is a k/j-fold of the frequency by which the m-bits words are supplied. An up-sampler (3) is provided for operation frequency adjustment of the filtered m-bits words to the noise shaper. This operation frequency is at least a factor k/j greater than the sample rate of the digital input signals. The control signals for the logic unit are formed by the m-bits words passed by the quantizer.



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